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# Release B Client Drill Down

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**31 October 1995**



# Overview

**Client Subsystem provides the user interface for:**

- **Desktop**
  - Used by all user (operators, science users, etc.) classes, except possibly guests using Web browsers.
  - Provides capability to integrate tools independent of the user class or purpose of the tool.
- **Workbench**
  - Tools provided by Client Subsystem are PRIMARILY for science end-users (other user classes use as well).
  - Multiple flavors of clients: Web based and X/Motif based

## **ECS Context**

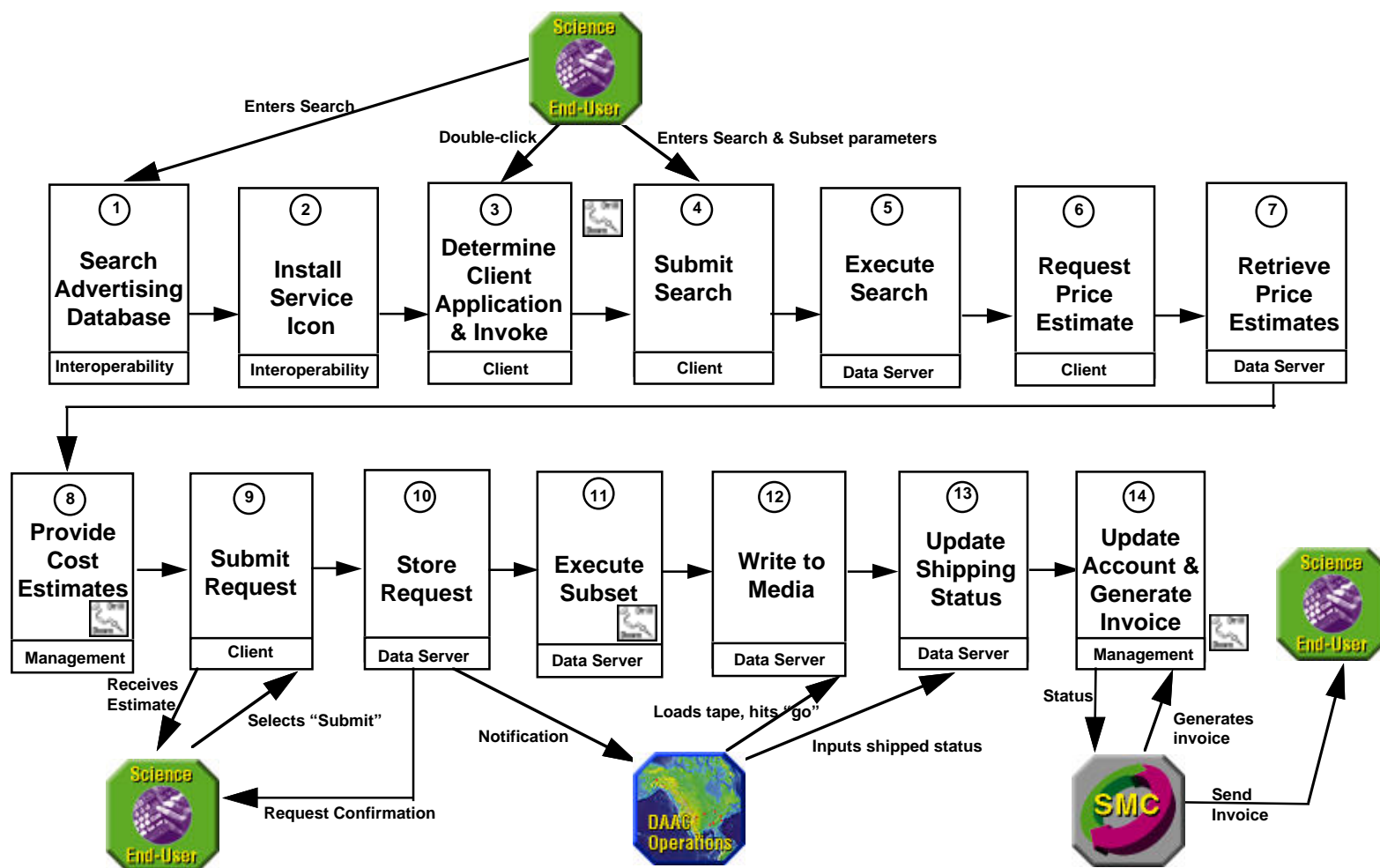
- Provides interface to ECS services and data, for all ECS servers (LIMs, DIMs, Data Server, etc.)
- Data Acquisition Request Tool interfaces directly to ASTER GDS

## **Scenario Context**

- Related to all Pull Scenarios

# Quick Access

## Functional Flow Diagram

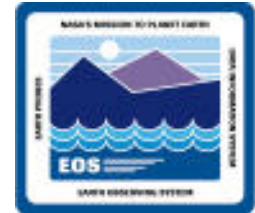


# Design Drivers








## Driving Requirements

- **Need very customizable, multiple workflow interfaces.**
- **Integration of user tools and interoperability with ECS supplied tools.**
- **Direct access to services and data.**
- **Access to extensible provider network.**
- **Provide secure and guest access to the system.**







# Release B Science Tools

	Name	Description	Type	Release
 Hypertext Viewer	Hypertext Viewer	HTML Viewer Application	Web based (OTS)	A
 Data Dictionary	Data Dictionary Tool	Provides search and access of data definitions stored in the Data Dictionary Service.	Web based	B
 User Preferences	User Preferences Tool	Allows user to specify default views of the interfaces as well as other customizable attributes.	X/Motif	B
 EOSView	Visualization (EOSView)	HDF-EOS Data Viewer and Analysis Application	X/Motif (extensible to other)	A& B
 Earth Science Search	Earth Science Search Tool	Submits and views results of searches to ECS components, such as DIMs, LIMs, SDSRVs, DDICT, etc.	X/Motif & Web based	B

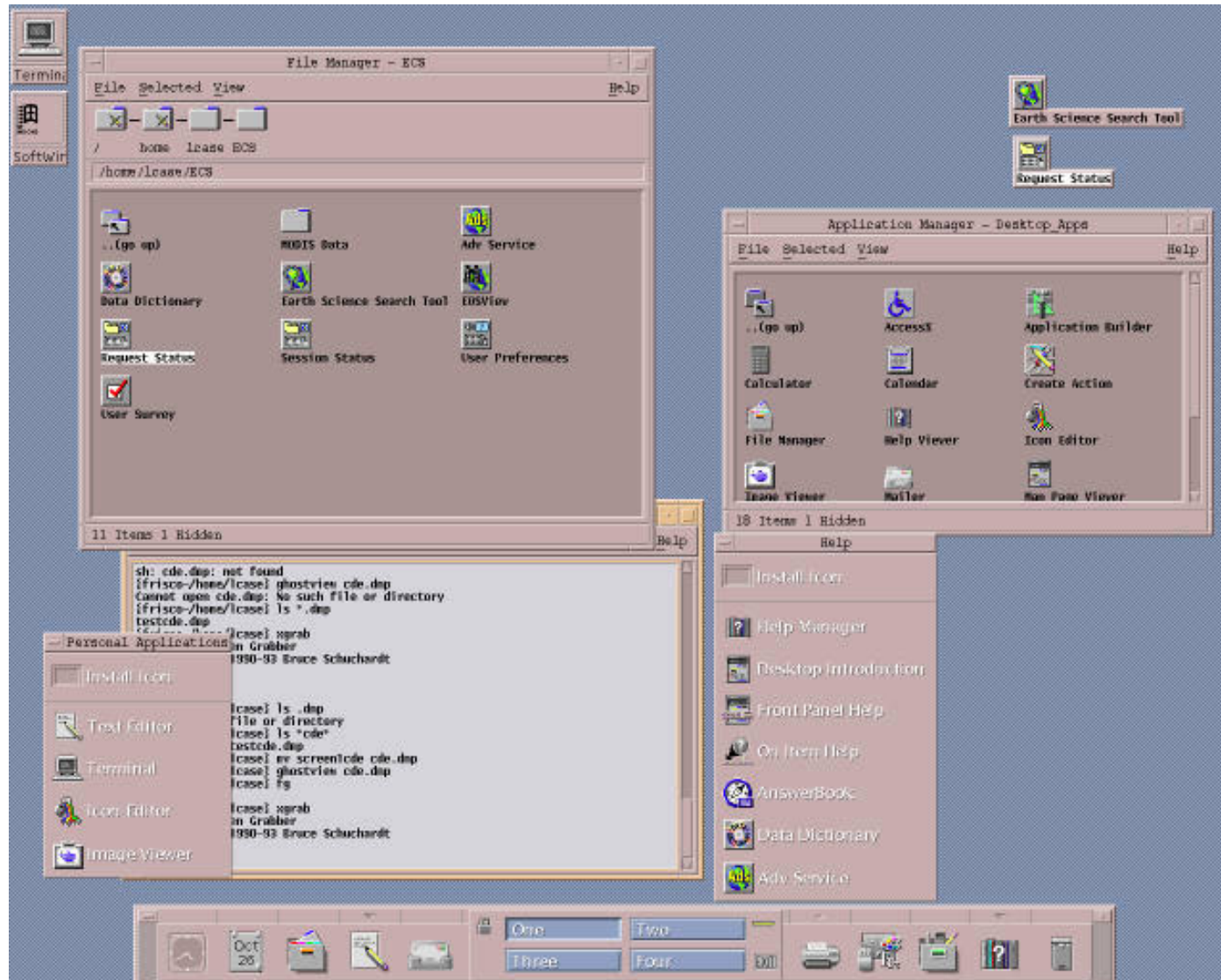
# Release B Science Tools

## (Continued)



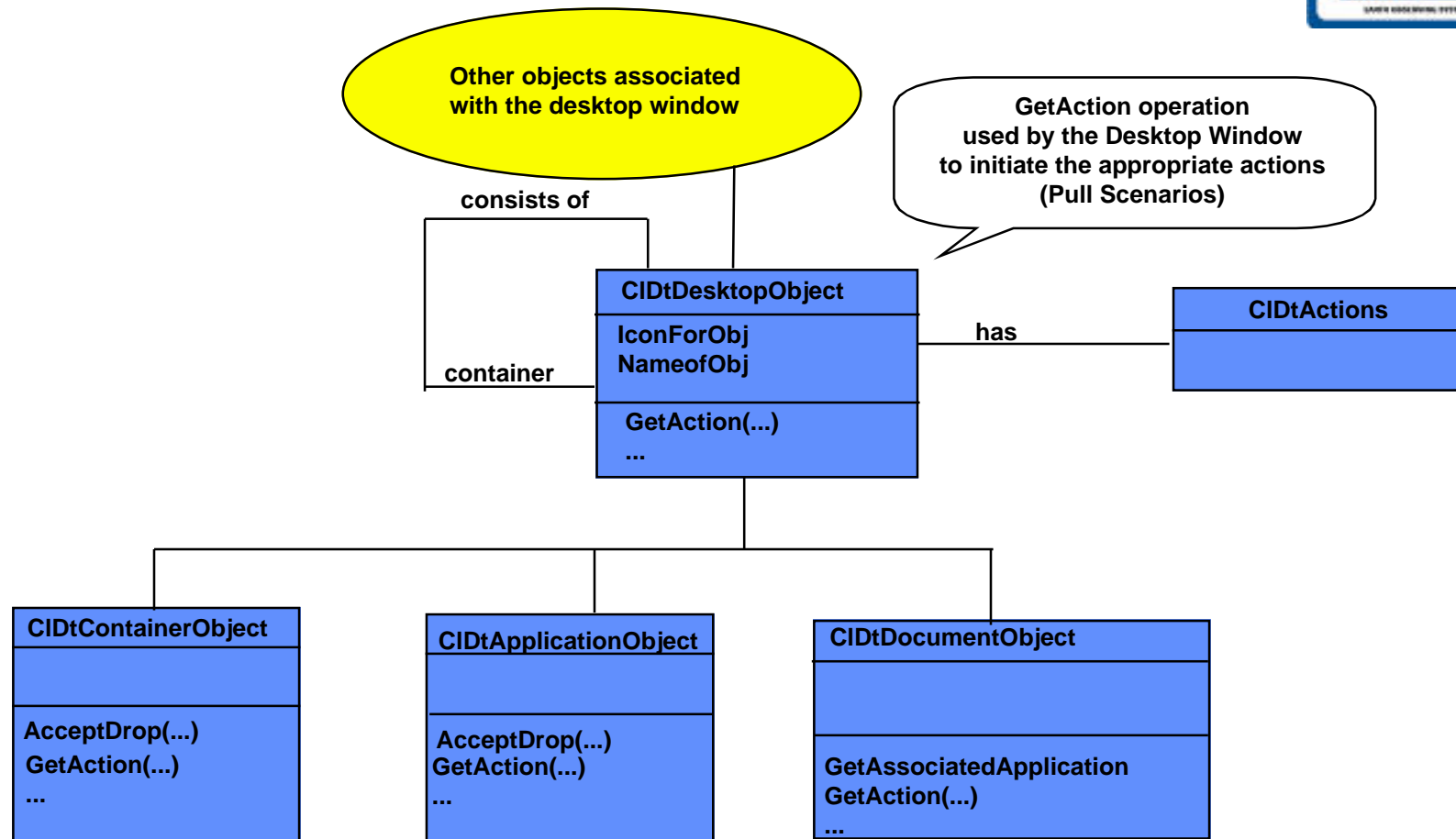
	Name	Description	Type	Release
 Product Request	Product Request Tool	Requests data either electronically or on media.	X/Motif	B
 DAR	Data Acquisition Request Tool	Provides the ability to submit ASTER DARs to the ASTER GDS as well as ASTER processing requests to ECS.	X/Motif	B
 Session Mgmt	Session Managment Tool	Allows the user to suspend, resume, terminate, or put sessions in the background as well as monitor status of requests currently being processed.	X/Motif	B
	E-mailer Tool	Used to send desktop objects via electronic mail	X/Motif (OTS)	B
 Other Tools	News Reader Tool	USENET news reader to read ECS bulletin board (alternative to bulletin board access through HyperText Viewer)	X/Motif (OTS)	B
	HyperText Authoring Tool	Speeds the creation of HTML documents.	Web based	B

# CDE Desktop Example





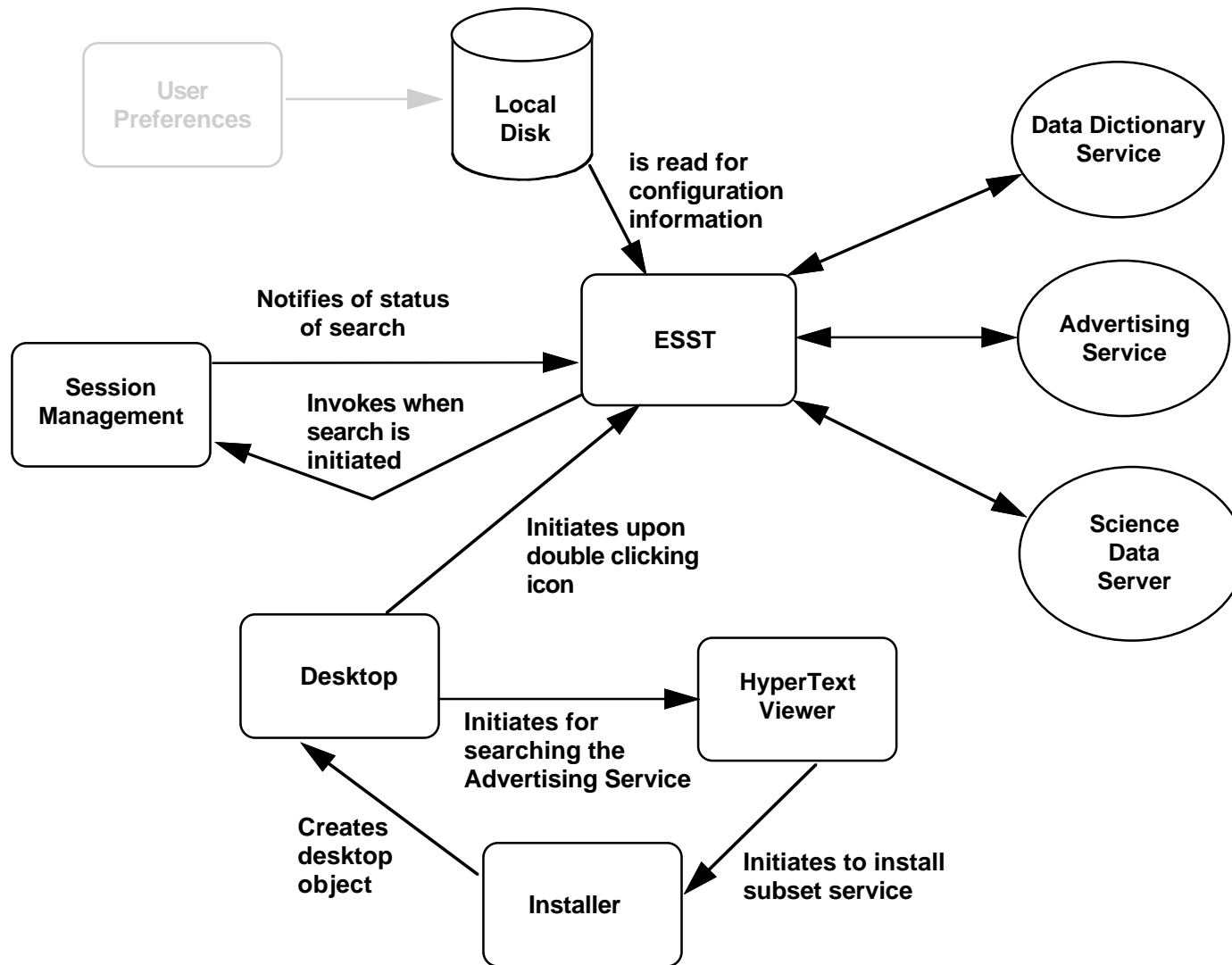
# High Level Desktop Model



For details, reference:  
305-CD-021-001



# Quick Access Scenario Tool Interaction





# Evolutionary Features

## Potential Future Enhancements

- Allow for migration to other desktop paradigms (non-CDE such as Macintosh, Windows).

## Emerging Technology

- Java and other Web technologies will have heavy emphasis.
- Emerging technology may provide evolution to PC/Mac environments. This needs proving through prototyping.



# Current Status

## Prototypes

- **PW2 - January 1996:**
  - ESST Web interface with Java, ESST Web interface without Java, and upgrades to existing EP6 ESST.
  - ASTER DAR interface.
  - Other external prototype evaluations and incorporations.

## Next Steps

- **Need to address the emerging technologies and how those can be best utilized within the architecture, requirements and schedule.**
- **Need to finalize the design of secure and non-secure clients (non-DCE clients).**
- **Evaluate new methods for chaining services together, such as search to subset to acquire.**
- **ASTER GDS interface for DARs.**
- **Evaluate caching strategies for Data Dictionary information.**

# Release B Client Summary



**Provides an extensible framework for accessing the services in the ECS provider network.**

**Allows users to add new tools and integrate with existing ECS services.**

**Provides access to all ECS service providers including interoperability with ADCs and Version 0.**

**Provides significant improvements to the Release A client in providing multiple user workflows and quick access to services.**

**Multiple flavors of the client to support the many types of users and access patterns.**